

Implementation of Mutual Recognition Agreements

ANATEL - BRAZIL

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TOPICS

- Anatel's plan for implementing MRA (current status).
- Main standards adopted by Anatel for accepting test reports.
- Procedures adopted by Anatel for designating Brazilian labs.
- Procedures adopted by Anatel for recognizing foreign labs.
- Mercosul MRA – status and expectation

MRA Implementation - Current Status

- Accredited labs and labs under accreditation
- Updating standards and requirements
- Improving procedures (OCD and labs)

Accredited Labs

- Responsibility: National Institute for Industrial Quality, Standardization and Metrology - Inmetro
- Applicable ISO/IEC guides or Standards (Inmetro):
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- Accredited labs: 6 (www.anatel.gov.br)
- Labs under accreditation: 7

Accredited Labs

- Responsibility: Inmetro /Anatel
- Applicable Anatel standards:
www.anatel.gov.br or [Main standards for certification](#)
- 2005 regulation activities:
[Regulation in preparation](#)

Updating standards and requirements

- EMC (Public Consultation 619)
- BTS (transceivers) – pending approval
- Modem xDSL – pending approval

Improving procedures - OCD

- OCD – Certification body designated by Anatel
- Compliance audits (onsite and remote)
- Preparing for accreditation (Inmetro)
- Training (precise interpretation of regulations)

Improving lab procedures

- Permanent compliance of regulatory requirements
- Interlaboratory comparison program
- Uncertainty in measurement

Procedures adopted by Anatel for designating Brazilian labs

1. Assessing testing laboratory based on the following items:

- Confidentiality
- Organization
- Quality system
- Technical staff
- Facilities/infrastructure
- Equipment/reference standards

Procedures adopted by Anatel for designating Brazilian labs

- Traceability of measurements and calibrations
- Calibrations and test methods
- Registration system (test data, errors, circumstances etc)
- Certificates and test reports
- Support services and outsourcing

Procedures adopted by Anatel for designating Brazilian labs

2. Establishing their scope by means of technical competence and infrastructure assessment, considering Anatel regulations for each product.
- This assessment is performed on the site after the analysis of the required documentation.

Procedures adopted by Anatel for designating Brazilian labs

Main objective: to accredit all laboratories

Note: Accredited labs have priority over unaccredited labs. This measure aims to stimulate accreditation since Anatel has no ideal conditions to monitor labs. This role is the responsibility of Inmetro within the Brazilian Conformity Assessment System - SBAC.

Procedures to be adopted by Anatel for recognizing foreign labs

- Anatel will preferably recognize accredited foreign labs.
- Specific cases will be considered individually. Criteria should be the same used for Brazilian Accreditation body.

Requirements for laboratories (Inmetro)

- **ISO/IEC 17025: 1999, *General requirements for the competence of calibration and testing laboratories.***
- **ISO/IEC 17011: 2004 – Conformity Assessment – General requirements for accreditation bodies accrediting conformity assessment bodies**



MERCOSUL MRA

Status and expectation

MERCOSUL MRA

Principles and Contents

- ***Mercosul MRA is based on Citel guidelines.***
- ***There are no significant technical differences between Citel MRA and Mercosul MRA.***

MERCOSUL MRA

Legal particularity

- ***According to the Mercosul Protocol, regional agreements may create legally binding obligations.***

MERCOSUL MRA

Status

- *Draft is almost ready.*
- *It is technically OK.*
- *Pending approval minor matters.*

MERCOSUL MRA

Expectation

- *To get approval at the next meeting foreseen for November 2005 in Montevideo.*

Thank You

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Equipment Certification - Main Standards

Resolution No.	Subject
392	User-network interface for PSTN
390	PBAX
372	Sectorial and omnidirectional antennas
370	Single channel analog AM transceivers
369	Digital transceivers for fixed service point-to-point applications above 1 GHz
368	Digital transceivers for fixed service point-to-multipoint applications above 1 GHz
367	Aperture directional antennas

Equipment Certification - Main Standards

Resolution No.	Subject
366	Linear antennas
364	Earth Station antennas
361	Single channel transceivers operating below 1 GHz
360	Digital transceivers for fixed service point-to-point applications below 1 GHz
359	Digital transceivers for fixed service point-to-multipoint applications below 1 GHz
305	Restricted radiation radiocommunication equipment
303	Limitation of exposure to electric, magnetic and electromagnetic fields between 9 kHz and 300 GHz

Equipment Certification - Main Standards

Resolution No.	Subject
242	Certification and approval of telecommunications equipment
238	Electrical safety
237	Electromagnetic compatibility-EMC (under revision)
170	Usage conditions for the frequency band 1910-1930 MHz
169	Usage conditions for the frequency band 400 MHz
167	Usage conditions for the frequency bands 1850-1870 MHz and 1930-1950 MHz
164	Usage conditions for the frequency band 3.5 GHz
146	Wireless fixed access to the PSTN (WLL)



Regulation in Preparation

1 - DRAFTS:

- NETWORK INTERFACES – PSTN
- MODEM XDSL
- RADAR (VELOCITY METER FOR VEHICLES)
- RECTIFIERS FOR TELECOM SERVICES
- POWER SUPPLIES FOR TELECOM SERVICES

2- PUBLIC CONSULTATIONS

- MOBILE TERMINALS FOR SATELLITE ACCESS (# 625)
- EMC # 619 (Res. # 237 under revision)
- WIRELESS TRANSCEIVERS FOR PSTN #592

3- RESOLUTIONS APPROVED IN 2005

414 – EARTH STATIONS FOR FIXED SATELLITE SERVICES

413 – TRANSCEIVERS FOR BTS (MOBILE - CELLULAR SERVICE AND TRUNKING)

412 – PUBLIC TELEPHONE (PSTN)

399 – CONNECTORS FOR COAXIAL CABLES

394 – STATIONARY ACCUMULATOR BATTERIES REGULATED BY VALVES

392 – USER - NETWORK INTERFACES (PSTN)

REGULATION ACTIVITIES - 2005

